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SECTION 105723 - CLOSET AND UTILITY SHELVING

TIPS:

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PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Epoxy-coated, wire shelving systems.
2. Custom wood storage systems.
3. Garage organization system.

B. Related Requirements:

1. Section 061000 "Rough Carpentry" for furring, blocking, and other carpentry work not exposed to view[**and for framing exposed to view**].

2. Section 061053 "Miscellaneous Rough Carpentry" for furring, blocking, and other carpentry work not exposed to view.

1.2 DEFINITIONS

- A. PVC: Polyvinyl chloride.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product. Indicate component materials, dimensions, profiles, textures, and colors and include construction and application details.
- B. Sustainable Design Submittals:
 1. Product Data: For recycled content, indicating postconsumer and preconsumer recycled content and cost.
 2. Composite Wood Products: Verify products are made using ultra-low-emitting formaldehyde resins, as defined in the California Air Resources Board's "Airborne Toxic Control Measure to Reduce Formaldehyde Emissions from Composite Wood Products," or are made with no added formaldehyde.
- C. Shop Drawings:
 1. Include plans, elevations, sections, and details.
 2. Show shelving and accessory layout.
 3. Indicate products by description and item part number.
- D. Samples: For each exposed product and for each color and texture specified.
- E. Samples for Initial Selection: For each type of product involving selection of colors, profiles, or textures.
- F. Samples for Verification: For the following products, one of each, in manufacturer's **[standard]** **[full]** size:
 1. For each type of specialized shelving.
 2. For each finish system and color of panel products with factory-applied finish.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Sample Warranty: For manufacturer's special warranty.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Stack panel products flat with spacers between each bundle to provide air circulation.
 - 1. Protect materials from weather by covering with waterproof sheeting, securely anchored.
 - 2. Provide for air circulation around stacks and under coverings.
- B. Deliver materials only when environmental conditions comply with requirements specified for installation areas. If materials must be stored in other than installation areas, store only where environmental conditions comply with requirements specified for installation areas.

1.7 FIELD CONDITIONS

- A. Environmental Limitations: Do not deliver or install materials until building is enclosed and weatherproof, wet-work in space is completed and nominally dry, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.
- B. Do not install materials that are wet, moisture damaged, or mold damaged.
 - 1. Indications that materials are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
 - 2. Indications that materials are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

1.8 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of closet and utility shelving systems that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Deterioration of metals, metal finishes, and other materials beyond normal wear.
 - 2. Warranty Period: Limited lifetime from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations: Obtain closet and utility shelving systems from single manufacturer.

2.2 MATERIALS, GENERAL

- A. Composite Wood Products: Products shall be made using ultra-low-emitting formaldehyde resins as defined in the California Air Resources Board's "Airborne Toxic Control Measure to Reduce Formaldehyde Emissions from Composite Wood Products" or shall be made with no added formaldehyde.
- B. Melamine-Faced Particleboard: Particleboard complying with ANSI A208.1, Grade M-2, finished on both faces with thermally fused, melamine-impregnated decorative paper and complying with NEMA LD 3, Grade VGL, for Test Methods 3.3, 3.4, 3.6, 3.8, and 3.10.
- C. Wire: Grade C-1008 bright, basic, cold-drawn steel wire with average tensile strength of **100,000 psi (690 MPa)**.
- D. Cold-Rolled Steel Channels: ASTM A653, structural steel Grade 80; hot-dip galvanized steel, **0.060-inch (1.5-mm)** minimum base-steel thickness.
- E. Recycled Content of Steel Products: Postconsumer recycled content plus one-half of preconsumer recycled content not less than **[100] <Insert number>** percent.

2.3 EPOXY-COATED, WIRE SHELVING SYSTEMS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Rubbermaid Incorporated; a Newell Brands company; Rubbermaid **[FastTrack Adjustable] [DirectMount Fixed]** Wire Shelving System.
- B. Wire Shelving:
 - 1. Fabricate wire-shelving units square, rigid, flat, and free of dents or distortion with connections forming rigid structure, free of buckling and warping. Resistance weld steel wire at intersections of cross-deck wires spaced at **[1 inch (25 mm)] [1/2 inch (13 mm)]** increments, and trim smooth.
 - 2. Shelving Types:
 - a. Basis-of-Design Product: Subject to compliance with requirements, provide Rubbermaid Incorporated; a Newell Brands company; Rubbermaid **[FreeSlide] [Linen] [TightMesh] [Wardrobe]** Wire Shelves.
 - b. Depth: **[9 inches (229 mm)] [12 inches (305 mm)] [16 inches (406 mm)] [20 inches (508 mm)] [As indicated on Drawings] [As selected by Architect]**.
 - c. Length: **[As indicated on Drawings] [As selected by Architect]**.
- C. Mounting System: Manufacturer's standard hardware and accessories necessary for a complete mounting system for securely attaching shelving system to substrate, supporting designed loading capability.
 - 1. Mounting Heights: **[As indicated on Drawings] [As recommended by Manufacturer]**.
 - 2. Mounting Configurations: **[As indicated on Drawings] [As selected by Architect]**.
 - 3. Rails: **[40 inches (1016 mm)] [80 inches (2032 mm)]** long.

4. Uprights: [**25 inches (635 mm)**] [**47-1/2 inches (1207 mm)**] [**70 inches (1778 mm)**] [**81-1/4 inches (2064 mm)**] high.
5. Brackets: Provide wall and corner support brackets for shelving spans of **30 inches (914 mm)** or longer.
 - a. Size: [**12 inches (635 mm)**] [**16 inches (1016 mm)**] [**20 inches (2032 mm)**].

D. Hardware:

1. Anchors.
2. Channels.
3. Clamps.
4. Clips, back and wall.
5. Drive pins.
6. Edge trim.
7. Hang rail.
8. Hang rod.
9. Joiner plates and rod spanners.
10. Plastic caps.
11. Poles.
12. Rod hanger.
13. Screws.
14. Support braces.

E. Accessories:

1. Closet rods, extendable **24 to 48 inches (610 to 1219 mm)**.
2. Shelf, single **22 inches (559 mm)** long.
3. Shoe organizer.

F. Finishes:

1. Metal Finish: Pretreated iron-phosphate coated steel components with [**white**] [**satin nickel**] finish coat of epoxy-polyester hybrid powder coating at **3 to 5 mil (0.08 mm to 0.13 mm)** thickness.
2. Wood Accessory Finish: [**White**] [**Chestnut oak**] [**Driftwood gray**].

2.4 CUSTOM WOOD LAMINATE STORAGE SYSTEMS

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Rubbermaid Incorporated; a Newell Brands company; Rubbermaid [**FastTrack Premium**] [**Melamine Closet System**].
- B. Laminate Shelving Panels: Melamine-faced particleboard with applied-PVC edge banding, **0.039 inch (1 mm)** thick:
 1. Style: [**Flat**] [**Shaker**] [**Raised**].
 2. Support: [**Floor**] [**Wall**] mount.

3. Shelf Loading Capacity: [40 lb (18 kg)] [50 lb (23 kg)] [55 lb (25 kg)] [70 lb (32 kg)] [90 lb (41 kg)] [100 lb (45 kg)] [120 lb (54 kg)] [140 lb (63.5 kg)].
4. Partition Height: [18 inches (457 mm)] [30 inches (762 mm)] [48 inches (1219 mm)] [72 inches (1829 mm)] [84 inches (2134 mm)] [96 inches (2438 mm)] [As indicated on Drawings] [As selected by Architect].
5. Shelf Length: [18 inches (457 mm)] [24 inches (610 mm)] [30 inches (762 mm)] [36 inches (914 mm)] [As indicated on Drawings] [As selected by Architect].
6. Depth: [12 inches (305 mm)] [14 inches (356 mm)] [19 inches (483 mm)] [As indicated on Drawings] [As selected by Architect].

C. Hardware:

1. Style:

- a. Basis-of-Design Product: Subject to compliance with requirements, provide Rubbermaid Incorporated; a Newell Brands company; Rubbermaid [Classic] [Knob] [Modern].
2. Fasteners: Screws, anchors, brackets, and other devices of type, size, material, and finish for secure attachment; concealed where possible.

D. Accessories:

1. Base moulding.
2. Clothes Hanging Rods: [Round] [Oval].
3. Crown moulding.
4. Door kit.
5. Drawer kit with wood dovetailed boxes.
6. Shoe cubbies.
7. Shoe shelves.
8. Tie and belt racks.
9. Valet rods.
10. Hamper kit with integrated baskets; 24 inches (610 mm) wide; 23-9/16 inches (598 mm) high.
11. Basket kit; chrome finish; [18 inches (457 mm)] [24 inches (610 mm)] [30 inches (762 mm)] wide; [6 inches (152 mm)] [11 inches (279 mm)] [17 inches (432 mm)] high; 12 inches (305 mm) deep.
12. Hutch kit.
13. Island kit.
14. Closet rods, extendable 24 to 48 inches (610 to 1219 mm).
15. Shelf, single 22 inches (559 mm) long.

E. Finishes:

1. System Finish: [White] [Cherry] [Dunbar gray] [Ivory] [Matte gray] [Mahogany] [As selected by Architect].
2. Metal Finish: Pretreated iron-phosphate coated steel components with chrome finish.
3. Laminate Shelving Panel Color: [White] [Cherry] [Chestnut oak] [Driftwood gray] [Ivory] [Mahogany] [Matte gray] [As selected by Architect].

2.5 RAPID SHELF CLOSET SYSTEM

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Rubbermaid Incorporated; a Newell Brands company; Rubbermaid Rapid Shelf Closet System.
- B. Laminate Shelving Panels: Melamine-faced particleboard with applied-PVC edge banding, **0.039 inch (1 mm)** thick:
 - 1. Shelf Size: **3/4 by 14 by 96 inches (19 by 356 by 2438 mm)**.
 - 2. Shelf Loading Density: **45 lbf/cu. ft. (721 kg/cu. m)**.
 - 3. System Loading Capacity Over **96 inches (2438 mm)**: [**280 lb (54 kg) drywall**] [**640 lb (63.5 kg) stud**] mount.
- C. Closet Rod:
 - 1. Hang Rod: Industrial-grade cast aluminum, chrome plated.
 - 2. Hang Rod Size: **96 by 1 inch (2438 by 25 mm)** diameter.
- D. Hardware:
 - 1. Support: Wall mount at [**12 inches (305 mm)**] [**16 inches (406 mm)**] [**24 inches (610 mm)**] o.c.
 - 2. Rod/Pole Cup: Industrial-grade cast aluminum, chrome plated.
 - 3. Corner Round Hanger Bar: Industrial-grade steel, chrome plated.
 - 4. Back Channel: Stamped steel, powder coated.
 - 5. Side Bracket: Stamped steel, powder coated.
 - 6. Angle Bracket: Industrial-grade steel, powder coated.
 - 7. Angle Bracket with Hanger Rod Support: Industrial-grade steel, powder coated, with polypropylene (PP) plastic pole support.
 - 8. Trim - Left, Right, Shelf End Cap, H-Channel Corner, H-Channel Straight: polypropylene (PP) copolymer plastic.
 - 9. Fasteners: Screws, anchors, brackets, and other devices of type, size, material, and finish for secure attachment; concealed where possible.
- E. Finishes:
 - 1. [**Wood**] [**Particle Board**] Finish: [**White**] [**Cherry**] [**Gray**] [**Ivory**] [**Mahogany**] [**As selected by Architect**].
 - 2. Hardware Finish: [**Black**] [**Satin nickel**] [**White**].

2.6 GARAGE ORGANIZATION SYSTEM

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Rubbermaid Incorporated; a Newell Brands company; Rubbermaid FastTrack Garage Organization[**and FastTrack Garage Cabinet**] System.
- B. Rail: Hot-dip galvanized cold-rolled steel channel with thermoplastic cover.
 - 1. Length: [**48 inches (1219 mm)**] [**84 inches (2134 mm)**].

2. Weight Capacity:
 - a. Accessories: **25 to 50 lb** (11.3 to 22.7 kg).
 - b. Rail, [**48-inch** (**1219-mm**)] [**84-inch** (**2134-mm**)]: **1750 lb** (794 kg).
- C. Cabinet Types: [**30-inch** (**762-mm**) Base cabinet with **1-1/2-inch-** (**38-mm-**) thick maple countertop] [**84-inch** (**2134-mm**) Tall cabinet] [**30-inch** (**762-mm**) Wall cabinet].
 1. Depth: [**14 inches** (**356 mm**)] [**19 inches** (**483 mm**)] [As indicated on Drawings] [As selected by Architect].
 2. Length: [As indicated on Drawings] [As selected by Architect].
 3. Component Kits:
 - a. Doors.
 - b. Drawers.
 - c. Laminate Shelving and Storage Panels: Melamine-faced particleboard with applied-PVC edge banding, **3/4 inch** (**19 mm**) thick:
 - 1) Depth: [**15-3/4 inches** (**400 mm**)] [As indicated on Drawings] [As selected by Architect].
 - 2) Length: [As indicated on Drawings] [As selected by Architect].
 - 3) Color: [White] [Chestnut oak] [Driftwood gray] [As selected by Architect].
- D. Accessories and Components: Provide the following items as indicated on Drawings, finished to match shelving units:
 1. Ball holder.
 2. Closet rods, extendable **24 to 48 inches** (**610 to 1219 mm**).
 3. Compact hook.
 4. Cooler hook.
 5. Cord manager.
 6. Hardware rack.
 7. Horizontal bike hook.
 8. Hose hook.
 9. Multipurpose hook.
 10. Ladder hook.
 11. Power tool holder.
 12. Two-handle hook.
 13. Three-handle hook.
 14. Utility hook.
 15. Vertical bike hook.
 16. Wire basket; **24 inches** (**610-mm**) wide; **11 inches** (**2790 mm**) deep; **6 inches** (**152 mm**) high.
- E. Fasteners: Screws, anchors, brackets, and other devices of type, size, material, and finish for secure attachment; concealed where possible.
- F. Finishes:

1. Cabinet System Finish: **[White]** **[Cherry]** **[Dunbar gray]** **[Ivory]** **[Matte gray]** **[Mahogany]** **[As selected by Architect]**.
2. Metal Finish: Pretreated iron-phosphate coated steel components with **[white]** **[satin nickel]** finish coat of epoxy-polyester hybrid powder coating at **3 to 5 mil** (**0.08 mm to 0.13 mm**) thickness.
3. Laminate Shelving and Storage Panel Color: **[White]** **[Cherry]** **[Ivory]** **[Mahogany]** **[Matte gray]** **[As selected by Architect]**.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine areas, with Installer present, for compliance with requirements for installation tolerances, location of framing and reinforcements, and other conditions affecting performance of shelving systems.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install shelving units, accessories, and system components after other finishing operations, including painting, have been completed in area of installation.
- B. Attach shelving units, accessories, and system components to substrates at locations indicated on Drawings in accordance with manufacturer's written instructions.
 1. Level and plumb shelving units to a tolerance of **1/8 inch in 96 inches** (**3 mm in 2438 mm**).

3.3 CLEANING AND PROTECTING

- A. Repair or remove and replace defective work as directed on completion of installation.
- B. Clean finished surfaces, touch up as required, and remove or refinish damaged or soiled areas to match original factory finish, as approved by Architect.
- C. Protect installed products from damage during remainder of construction period.

END OF SECTION 105723